Inventor: OGAWA
Docket No.: 10873.255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE
SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND
METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
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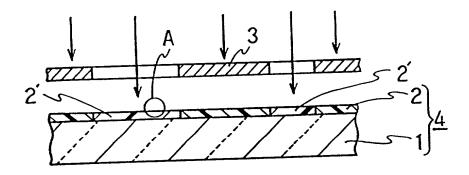


FIG. 1

Inventor: OGAWA
Docket No.: 10873 255USD1
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Attorney Name. Douglas P. Mueller
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FIG. 2

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Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND

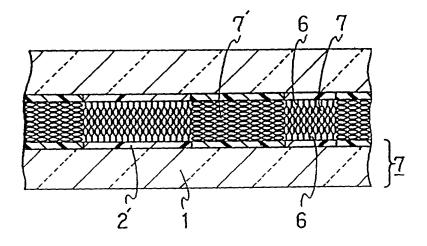
METHOD FOR PRODUCING THE SAME

Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 3 of 28

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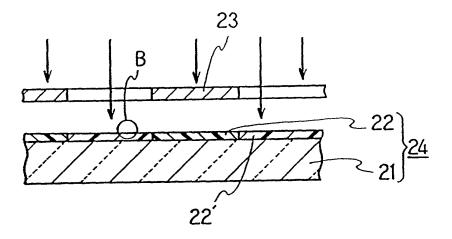
FIG. 3

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
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F1G. 4

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
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F1G. 5

Inventor: OGAWA
Docket No. 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME ATTOMATION Name: Douglas P. Mueller
Phone No. 612.371 5237
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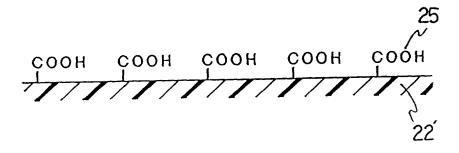


FIG. 6

Inventor: OGAWA
Docket No.. 10873 255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller
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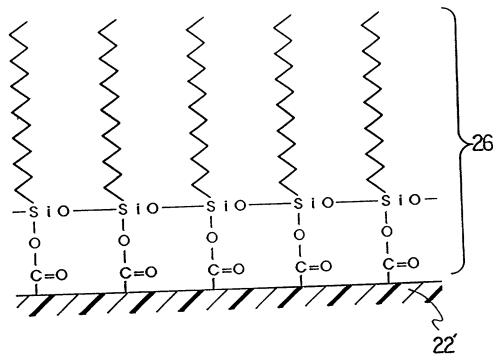


FIG. 7

Inventor: OGAWA

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Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name Douglas P Mueller
Phone No.: 612.371.5237

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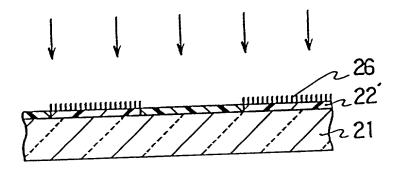


FIG. 8

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME ATTOMIC Name: Douglas P. Mueller
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FIG. 9

Inventor: OGAWA Docket No · 10873 255USD1

Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND

METHOD FOR PRODUCING THE SAME

Attorney Name Douglas P. Mueller

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FIG. 10

Inventor: OGAWA
Docket No: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name. Douglas P. Mueller
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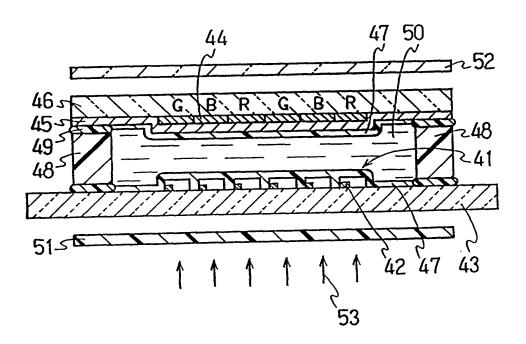


FIG. 11

Inventor: OGAWA
Docket No.: 10873.255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME ATOMEY Name: Douglas P. Mueller
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FIG. 12

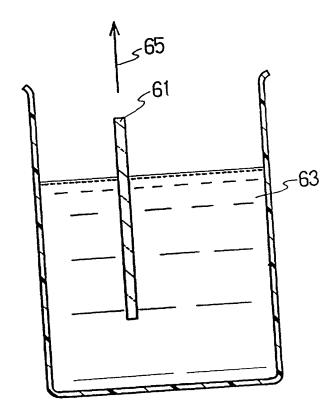
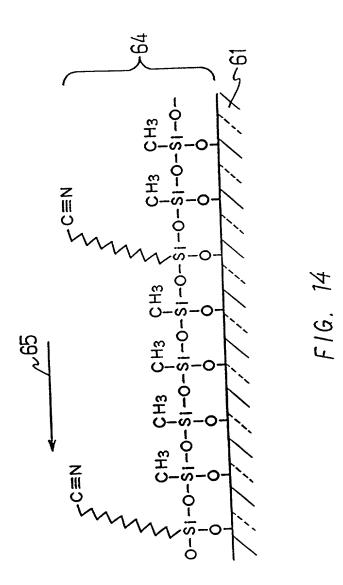


FIG. 13

Inventor: OGAWA
Docket No. 10873.255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
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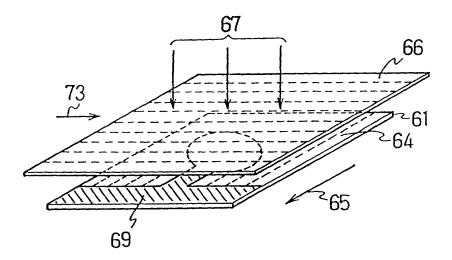


FIG. 15

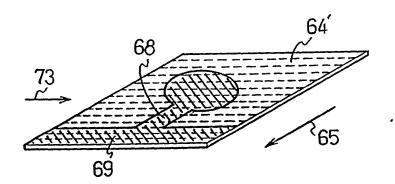
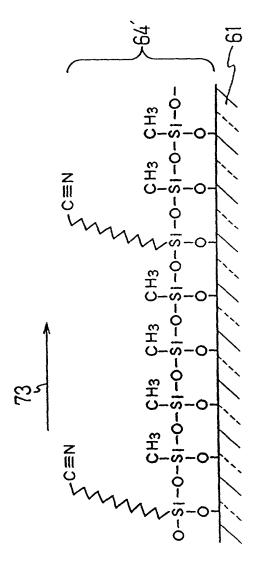


FIG. 16

Inventor: OGAWA
Docket No.: 10873 255USD1
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Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND

METHOD FOR PRODUCING THE SAME

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FIG. 18

FIG. 19

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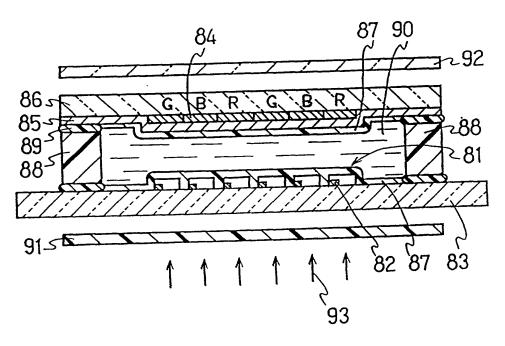


FIG. 20

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE
SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND
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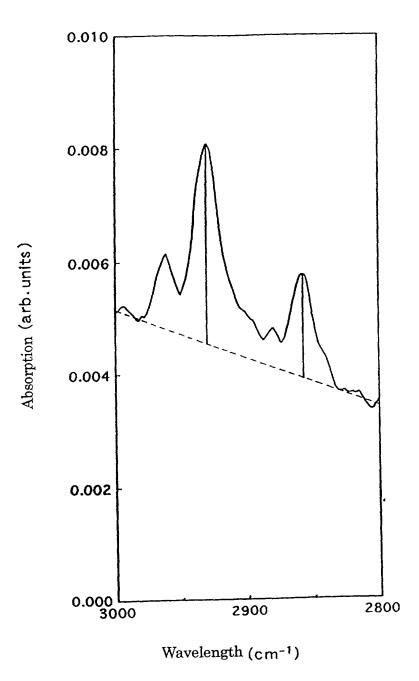


FIG. 21

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME

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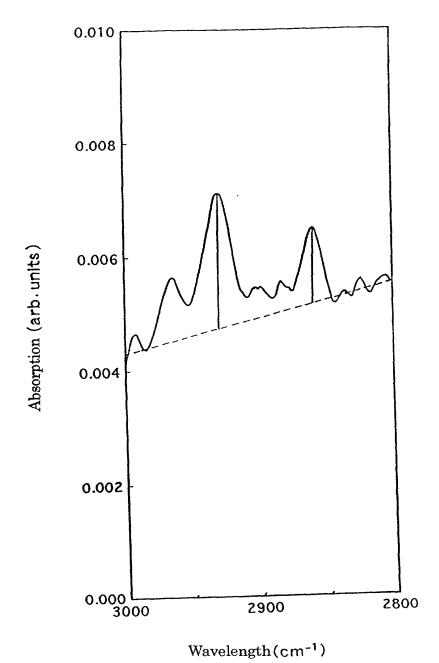


FIG. 22

Inventor: OGAWA
Docket No.: 10873 255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
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FIG. 23

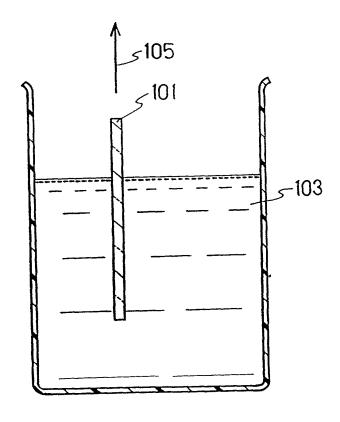
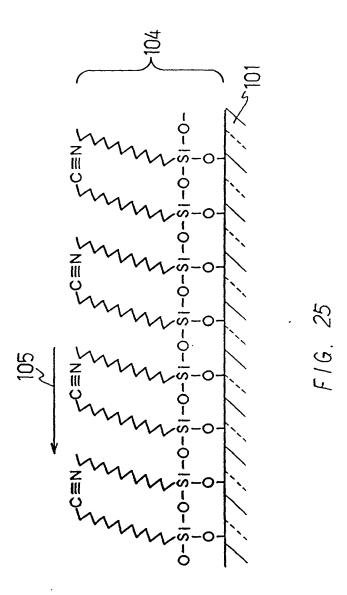


FIG. 24

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME ATTOMIC Name. Douglas P. Mueller
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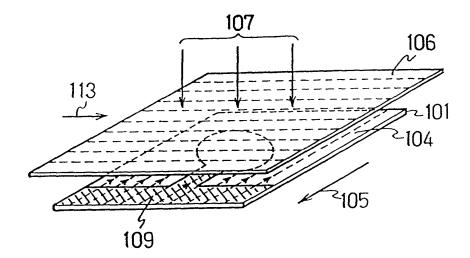


FIG. 26

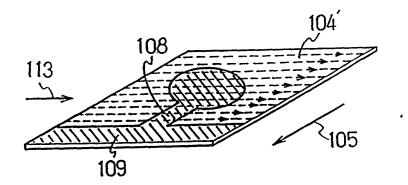
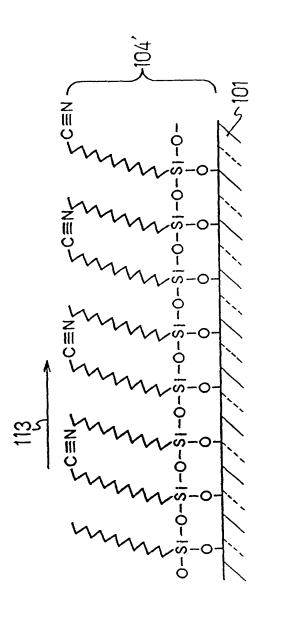


FIG. 27

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller
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FIG. 29

FIG. 30

Inventor: OGAWA Docket No.: 10873.255USD1

Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND

METHOD FOR PRODUCING THE SAME

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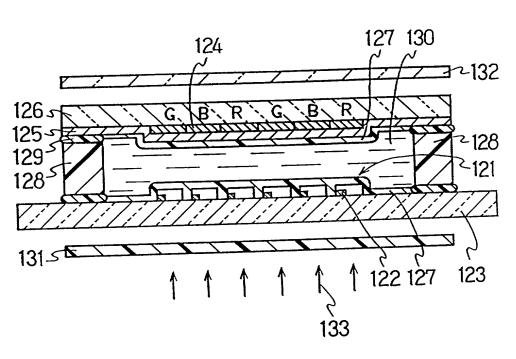
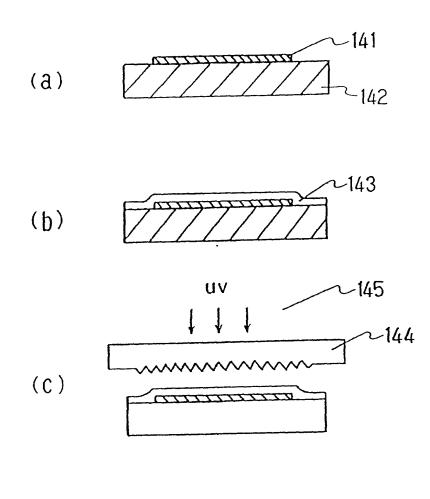


FIG. 31

Inventor: OGAWA
Docket No. 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller
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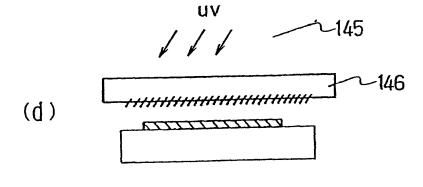
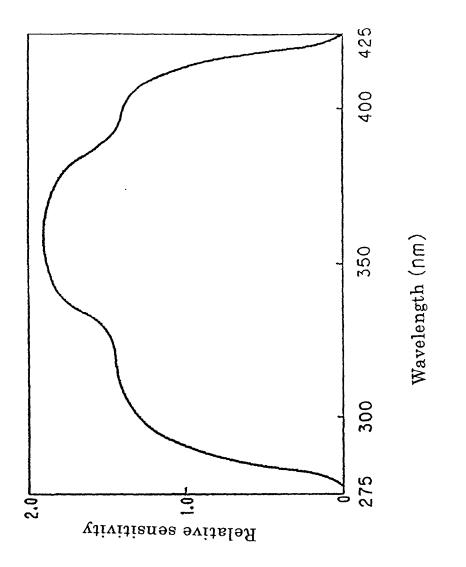


FIG. 32

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
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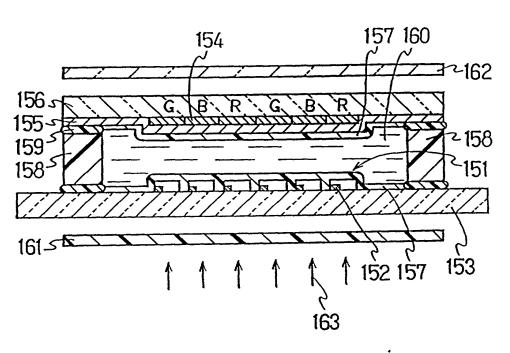


FIG. 34